MassDOT Highway Construction Contract: 108809

Replacement of Bridge Nos. G-12-052 and G-12-053 Interstate 91 (NB & SB) over the Pan Am Railroad

Joint Board Meeting

November 18, 2019

Overview

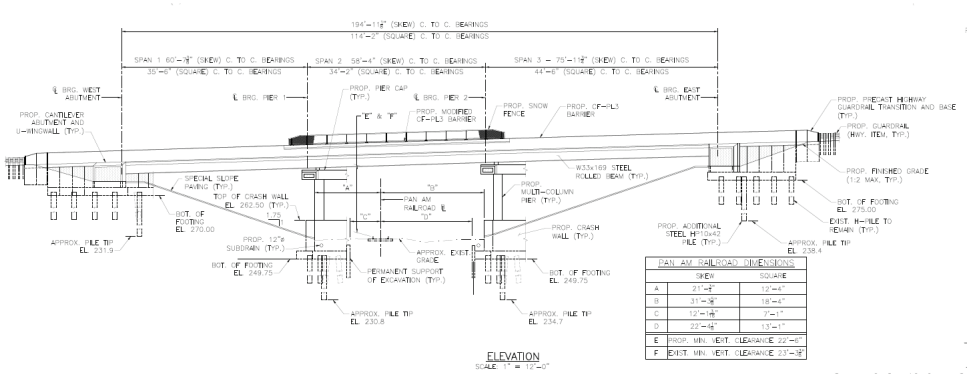
- Staff requests Board approval of $19.4M contract with MIG Corporation to replace of two deteriorated bridges carrying I-91
  - Widening both bridges to minimize traffic impacts
  - Includes 900+ feet of roadway improvements on bridge approaches
- Construction will take approx. 4 years
  - Staged to maintain 2 lanes of traffic in each direction at all times
- This project supports MassDOT goal to reduce the number of structurally deficient bridges

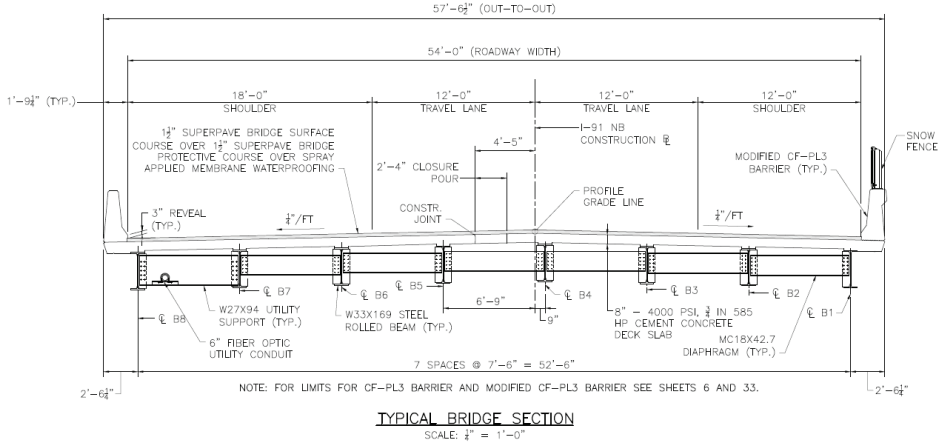
Purpose and Need

- Bridges G-12-052 & G-12-053 are structurally deficient
- The existing approach pavement is in poor condition

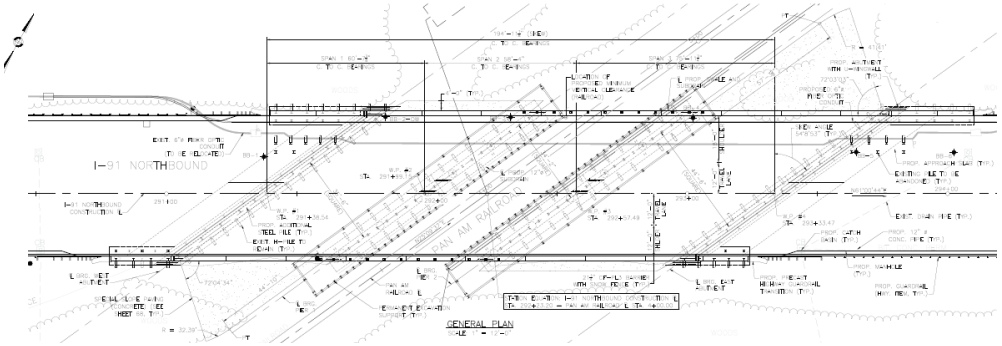
Construction Scope

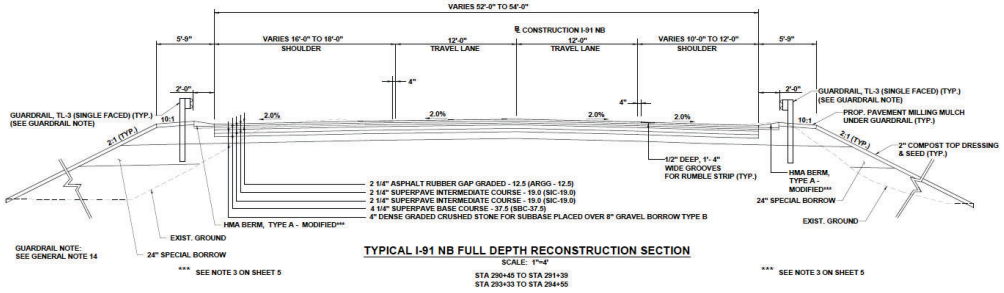
- Bridges replaced in halves with 2 stages of construction per bridge
- Steel rolled beams with cast-in-place concrete deck and cast-in-place abutments and two piers
- Constructed in the same location as the existing three-span structure to re-use the existing piles





Construction Scope (cont'd)





- Approx.100 feet of full pavement reconstruction and approx. 800 feet of mill & overlay with box-widening on each side of the bridges

Traffic Impacts

- Lane shifting will have minor impacts to the overall traffic pattern
- 55 mph speed limit during construction will also have minimal impact on overall traffic patterns

Project Considerations

- Project shall incorporate a Real Time Traffic Management (RTTM) system for the duration of construction
- Two lane of traffic in each direction will be kept open at all phases of construction

Procurement

- Project was advertised July 13, 2019
- Engineer's Estimate was $18,875,365.51
- Bid Opening was October 16, 2019
- Five (5) bids were received:

MIG Corporation	**$19,357,752.70**
Northern Constr Services LLC	$20,427,473.00
JH Maxymillian Inc	$20,472,819.00
J F White Contracting Co	$20,957,839.00
ET&L Corp	$25,979,787.00

Overall Project Budget

Line Item	Budget
Bid Amount	$19,357,752.70
Contingencies	$1,935,775.27
Construction Engineering	$967,887.64
Total	**$22,261,415.61**

- 80% Federal funding, 20% State funding
- Programmed Cost in the 2020-24 TIP: $22.5M

Request of the Board

- Staff requests that the MassDOT Board authorize the Secretary of the Massachusetts Department of Transportation, or her designee, to award and execute MassDOT Construction Contract 108809: 2 Bridge Replacements Br. Nos. G-12-052 & G-12-053 (Steel) Interstate 91 (NB & SB) over the Pan Am Railroad with MIG Corporation for an amount not to exceed $19,357,752.70.